

Abstract of the Disclosure

Ternary spreading codes in which side lobes near a peak of auto-correlation and cross-correlation are zero for a duration equal to or less than $(0.75N+1)$ chips for a N chip period code are generated. The ternary spreading codes of the present invention is generated by (a) generating ternary zero correlation duration preferred pair codes, in which the zero correlation duration of $(0.75N+1)$ chips is retained, by expanding a N chip period of a code, N being a natural number; and (b) generating a plurality of ternary zero correlation duration code sets having zero correlation characteristic equal to or less than $(0.75N+1)$ chips by shifting the generated ternary zero correlation duration preferred pair codes in chips.